

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-13. (Cancelled)

14. (New) A control unit comprising:

a housing;

a processor situated in the housing; and

at least one inertial sensor situated in the housing,

wherein a data transmission between the processor and the at least one inertial sensor is digital.

15. (New) The control unit according to claim 14, further comprising a serial synchronous interface for providing the data transmission.

16. (New) The control unit according to claim 14, wherein the data transmission is configured in such a way that transmitted data has at least one error bit and at least one status bit.

17. (New) The control unit according to claim 14, wherein the data transmission is configured to be bidirectional.

18. (New) The control unit according to claim 14, wherein the data transmission is configured for triggering a sensor test.

19. (New) The control unit according to claim 14, wherein the data transmission is configured for triggering an offset regulation of the at least one inertial sensor.

20. (New) The control unit according to claim 14, wherein four lines are provided for the data transmission, one of the lines being for selecting the at least one inertial sensor.

21. (New) The control unit according to claim 14, wherein the at least one sensor has a multi-channel design.
22. (New) The control unit according to claim 14, wherein the data transmission is configured for triggering a switch-over from one operating state to another operating state of the at least one inertial sensor.
23. (New) The control unit according to claim 14, wherein the control unit is part of a restraint system.
24. (New) The control unit according to claim 14, wherein the control unit is part of a vehicle dynamics control system.
25. (New) The control unit according to claim 14, wherein the control unit is part of one of a sensor box and a sensor cluster.
26. (New) The control unit according to claim 14, wherein the control unit is part of a vehicle navigation system.